



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
-----------------	-------------	----------------------	---------------------

09/656,523 09/07/00 BAGINSKI

T 14237-752 *SM*

021971 PM82/1019
WILSON SONSINI GOODRICH & ROSATI
650 PAGE MILL ROAD
PALO ALTO CA 94304-1050

EXAMINER

CHAMBERS, T

ART UNIT

PAPER NUMBER

3641

DATE MAILED:

10/19/01 *3*

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/656,523

Applicant(s)

BAGINSKI ET AL.

Examiner

Troy Chambers

Art Unit

3641

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,2,5,6,8,9,12,13,16,19,22,23 and 26 is/are rejected.
- 7) ☐ Claim(s) 3, 4, 7, 10, 11, 14, 15, 17, 18, 20, 21, 24, 25, 27 and 28 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

• Art Unit: 3641

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, it is not clear whether the slashes that separate the elements titanium, nickel and goal are meant to represent an alternative or additive conjunction (and/or).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

4. Claims 1, 2, 5, 6, 8, 9, 12, 13, 16, 19, 22, 23 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6133146 issued to Martinez-Tovar et al. ("MT"). MT discloses a semiconductor bridge device 10, comprising: a cap 42; a header 44; explosives 36; electrically conductive lead pins 32a/b; an electrically non-conducting substrate 12; an electrically-conducting material deposited on the substrate 14, said material defining a bridge 14c connecting a pair of spaced-apart pads

• Art Unit: 3641

14a/b; a pair of spaced-apart metallized lands, each land comprising a base layer comprised of titanium, an intermediate layer comprised of titanium and tungsten, and a top layer comprised of tungsten; and, an electrical conductor connected to each of the metallized lands. (Claim 1).

5. With respect to claim 1 and 8, MT discloses applicant's device as described above. (See also, Tovar, figures 3A and 7A).

6. With respect to claim 2 and 9, MT discloses reactive materials titanium (electrical resistivity = $40 \times 10^{-8} \Omega\text{m}$) and tungsten (resistivity = $5 \times 10^{-8} \Omega\text{m}$).

7. With respect to claim 5 and 12, MT discloses several layers of up to 350 Angstroms and up to 1.2 microns. (Col. 7, ll. 61-67 to col. 8, ll. 1-6).

8. With respect to claim 6, MT discloses an SCB device further comprising an intergrated diode formed by an interface of the insulating material 14 with lands 16a/b.

9. With respect to claims 13, 16, 19, 22, 23 and 26, refer to the above explanation.

Allowable Subject Matter

10. Claims 3, 4, 7, 10, 11, 14, 15, 17, 18, 20, 21, 24, 25, 27 and 28 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 3641

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents to Baginski, Martinez-Tovar, Hartman, Benson and Chittipeddi are cited as of interest to show similar SCB devices.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Troy Chambers whose telephone number is (703) 308-5870. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Carone, can be reached at (703) 306-4198.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-4177. The fax phone number for the organization where this application or proceeding is assigned is (703) 306-4195.



MICHAEL J. CARONE
SUPERVISORY PATENT EXAMINER